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NOTICE OF ALLOWANCE AND FEE(S) DUE

30671

7590

01/24/2011

DITTHAVONG MORI & STEINER, P.C. 918 Prince Street Alexandria, VA 22314 EXAMINER

ARIANI, KADE

ART UNIT PAPER NUMBER

1651

DATE MAILED: 01/24/2011

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/590.184	06/13/2007	Satoru Yamagami	01125 1000	3525

TITLE OF INVENTION: LAMINATE OF CULTURED HUMAN CORNEAL ENDOTHELIAL CELLS LAYER AND METHOD FOR

MANUFACTURING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/25/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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(571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 30671 7590 01/24/2011 Certificate of Mailing or Transmission DITTHAVONG MORI & STEINER, P.C. I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 918 Prince Street Alexandria, VA 22314 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/590,184 06/13/2007 Satoru Yamagami 01125 1000 3525 TITLE OF INVENTION: LAMINATE OF CULTURED HUMAN CORNEAL ENDOTHELIAL CELLS LAYER AND METHOD FOR MANUFACTURING SAME APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 04/25/2011 **EXAMINER** ART UNIT CLASS-SUBCLASS ARIANI, KADE 1651 424-423000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/590,184		06/13/2007	Satoru Yamagami	01125_1000	3525
30671	7590	01/24/2011		EXAMINER	
DITTHAVON	IG MOR	I & STEINER,	ARIANI, KADE		
918 Prince Stree	et			ART UNIT	PAPER NUMBER
Alexandria, VA	22314			1651	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 408 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 408 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/590,184	YAMAGAMI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	KADE ADIANI	1651				
	KADE ARIANI	1651				
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate comr	in this application. If not included nunication will be mailed in due course.				
1. \boxtimes This communication is responsive to $\underline{\textit{the telephonic intervi}}$	<u>iew with Attorney Christoph</u>	<u>er Ward on 1/14/2011</u> .				
2. The allowed claim(s) is/are <u>1-17</u> .						
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Applicat	ion No	n the			
International Bureau (PCT Rule 17.2(a)).		<u> </u>				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requireme	nts			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			f			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			•			
Attachment(s)						
1. Notice of References Cited (PTO-892)	<u> </u>	nformal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), p./Mail Date				
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner	s Amendment/Comment				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner	s Statement of Reasons for Allowance				
of Biological Material	9. 🗌 Other					
/Kade Ariani/						
Primary Examiner, Art Unit 1651						

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Telephonic Interview Summery

Authorization for this examiner's amendment was given in a telephone interview with Applicant's Attorney Christopher D. Ward on January 14, 2011.

Amendments to the Claims

Claims 1-17 are allowed.

In claim 1 (line 1) delete "sheet" and insert –sheet that has been coated with an adhesive factor or a bioadhesive-- in its place.

In claim 3 (lines 1-2) delete "transparent type I collagen sheet has an adhesive factor or bioadhesive layer" and insert –adhesive factor or bioadhesive layer is-- in its place.

In claim 4 (line 1) delete "an" and insert -said-- in its place.

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In claim 6 (line 1) delete "cultured human corneal endothelial cells" and insert --a cultured layer of human corneal endothelial cells on a transparent type I collagen sheet- in its place.

In claim 6 (line 5 continued on the next page) delete "human" and insert --a solution containing human--.

In claim 6 (line 5 continued on the next page) delete "cultured layer of human corneal endothelial cells" and insert --laminate comprising a cultured layer of human corneal endothelial cells and said transparent type I collagen sheet having a thickness ranging from 5 to 50 micrometers-- in its place.

In claim 8 (line 2) delete "a" and insert -said-- in its place.

In claim 10 (line 2) delete "a culture" and insert --the-- in its place, and (line 3) delete "a" and insert --the-- in its place.

In claim 11 (line 3) delete "culture".

In claim 16 (line 3) after "sheet" insert --into the anterior chamber of an eye from which the Descemet's membrane was removed--.

In claim 16 (lines 3-4) delete "transplanting" the laminate by inserting it into the anterior chamber" and insert --adding fibronectin to said laminate and inserting the laminate into the anterior chamber-- in its place.

In claim 17 (line 1) delete "comprising fixing the inserted laminate to the posterior corneal stroma" and insert –wherein the inserted laminate is attached and fixed to the posterior corneal stroma-- in its place.

Examiner Comments

Art Unit: 1651

The rejection of claims 1-17 under 35 U.S.C. 102 (a) as being anticipated by Mimura et al. (in the Office Action mailed on 6/9/2010) is withdrawn in view of the priority date and due to the filing of the translation of the certified copy of foreign priority document together with the statement that the translation is accurate (on 09/09/2010).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KADE ARIANI whose telephone number is (571)272-6083. The examiner can normally be reached on IFP.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-2720926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kade Ariani/ Primary Examiner, Art Unit 1651